

# SERVICE NEWS

FUJI HEAVY INDUSTRIES LTD.

HEAD OFFICE; SUBARU BLDG.  
SHINJUKU, TOKYO, JAPAN

NO. 200-007      DATE September 30, 1987

(SUPERSEDES NO.      )

REV.      DATE

(SUPERSEDES NO.      )

REASON

## The Partial Revision for FA-200 Service Manual and Parts Catalogue (Part 2)

Since FA-200 MAIN WHEEL ASSY was added, FA-200 Service Manual and Parts Catalogue has been modified, so we will inform you of the modified contents.

We attached Service Manual and Parts Catalogue separately. Please use them according to the following attached documents.

### 1. Service Manual No.      Attached Service Manual Page

(1) 200-010003A	· · · · ·	PAGE 3 ~ 6	(9-6A, 9-7, 9-8)
(2) 200-010013	· · · · ·	PAGE 7 ~ 10	(9-6A, 9-7, 9-8)

### 2. Parts Catalogue No.      Attached Parts Catalogue Page

(1) 200-010001B	· · · · ·	PAGE 11 ~ 12	(4-19, 4-20)
(2) 200-010011	· · · · ·	PAGE 13 ~ 14	(4-19, 4-20)

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account.

(5) Install and tighten the wheel attaching bolts as follows:

a. 9532522 wheel

Position countersunk washer under bolt with countersink toward bolt head. Then insert the bolt with bolt head inboard.

Install nut and one plain washer on the bolt.

First, tighten three nuts to 30 in-lbs torque. Next, tighten them to 60 in-lbs torque, and then, tighten them to 83 in-lbs torque.

b. 9532522-1 wheel

After applying antiseize compound (MIL-T-5544) to thread part of bolt, contact area of bolt head and washer, self-locking nut, countersunk washer and plain washer, install and tighten the nut by the same procedures as 9532522 wheel.

— CAUTION —

When installing 42FLW-428 nut on 9532522 wheel, refer to proper bolt tightening procedure for 9532522-1 wheel.

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(6) Eliminate the wrinkles of the tube by inflating and deflating it. After setting it to the tire rim, inflate the tire to the specified air pressure.

### 9-3-10 DISASSEMBLING OF MAIN GEAR SHOCK STRUT (SEE FIG. 9-5)

The following procedures are applicable to the shock struts removed from the airplane. (The wheel, landing gear strut cover and fairing to be removed per applicable instructions.)

- (1) With the air valve cap (11) removed, discharge air completely from the core (12).
- (2) Remove the air valve body (13) from the plug (16).
- (3) With the snap ring (15) removed, remove the stopper (19), plug and "O" ring (17).
- (4) Pull out the orifice tube (18).
- (5) Drain oil.
- (6) Remove the torque knee (28).
- (7) With the bolt (32) removed, disconnect the piston (25) from the socket (26).
- (8) Pull out the piston from the upper end of the cylinder.
- (9) With the snap ring (24) of the cylinder skirt section removed, remove the adapter (23) and scraper ring (22).
- (10) Remove the "O" ring (20) and oil pad (33) from inside the cylinder.

### 9-3-11 ASSEMBLING OF MAIN GEAR SHOCK STRUT

(1) After cleaning all parts properly, check them for wear and damage. Replace defective parts. Replace "O" rings with new ones.

- (2) Install "O" ring and oil pad inside the cylinder.
- (3) Install the scraper ring and adapter on the cylinder skirt with the snap ring.
- (4) Insert the piston from the upper side of the cylinder.
- (5) Install the piston and socket with bolts. Tighten the bolts to 270 ~ 300 in-lb.
- (6) Install the torque knee.
- (7) Install the orifice tube.
- (8) Lubricate the strut in accordance with para. 3-2-2.
- (9) Install the "O" ring, stopper and plug with the snap ring.
- (10) Install the "O" ring and valve body on the plug.
- (11) Charge air in accordance with para. 3-2-12 and install the valve cap.

## 9-4 NOSE LANDING GEAR (SEE FIG. 9-6)

### 9-4-1 REMOVAL AND INSTALLATION OF NOSE LANDING GEAR

- (1) Remove the upper engine cowling.
- (2) Lift the nose gear off the ground either by
  - a. lifting the forward fuselage using the engine hoist ring, or
  - b. jacking up the airplane per para.2-2.

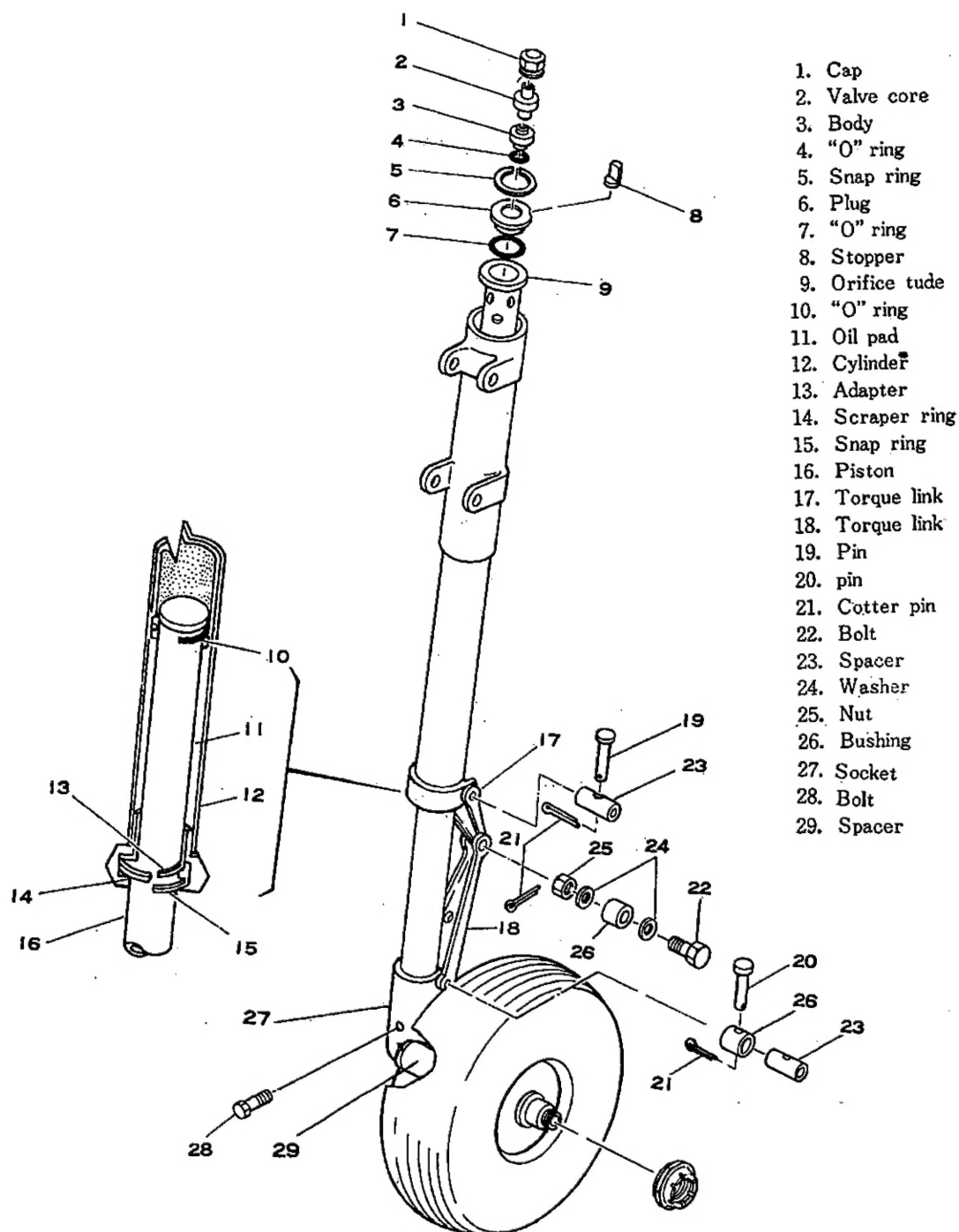


FIG 9-5 MAIN GEAR SHOCK STRUT AND TORQUE LINK



account.

(5) Install and tighten the wheel attaching bolts as follows:

a. 9532522 wheel

Position countersunk washer under bolt with countersink toward bolt head. Then insert the bolt with bolt head inboard.

Install nut and one plain washer on the bolt.

First, tighten three nuts to 30 in-lbs torque. Next, tighten them to 60 in-lbs torque, and then, tighten them to 83 in-lbs torque.

b. 9532522-1 wheel

After applying antiseize compound (MIL-T-5544) to thread part of bolt, contact area of bolt head and washer, self-locking nut, countersunk washer and plain washer, install and tighten the nut by the same procedures as 9532522 wheel.

— CAUTION —

When installing 42FLW-428 nut on 9532522 wheel, refer to proper bolt tightening procedure for 9532522-1 wheel.

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(6) Eliminate the wrinkles of the tube by inflating and deflating it. After setting it to the tire rim, inflate the tire to the specified air pressure.

### 9-3-10 DISASSEMBLING OF MAIN GEAR SHOCK STRUT (SEE FIG. 9-5)

The following procedures are applicable to the shock struts removed from the airplane. (The wheel, landing gear struct cover and fairing to be removed per applicable instructions.)

- (1) With the air valve cap (11) removed, discharge air completely from the core (12) .
- (2) Remove the air valve body (13) from the plug (16) .
- (3) With the snap ring (15) removed, remove the stopper (19) , plug and "O" ring (17) .
- (4) Pull out the orifice tube (18) .
- (5) Drain oil.
- (6) Remove the torque knee (28) .
- (7) With the bolt (32) removed, disconnect the piston (25) from the socket (26) .
- (8) Pull out the piston from the upper end of the cylinder.
- (9) With the snap ring (24) of the cylinder skirt section removed, remove the adapter (23) and scraper ring (22) .
- (10) Remove the "O" ring (20) and oil pad (33) from inside the cylinder.

### 9-3-11 ASSEMBLING OF MAIN GEAR SHOCK STRUT

- (1) After cleaning all parts properly, check them for wear and damage. Replace defective parts. Replace "O" rings with new ones.
- (2) Install "O" ring and oil pad inside the cylinder.
- (3) Install the scraper ring and adapter on the cylinder skirt with the snap ring.
- (4) Insert the piston from the upper side of the cylinder.
- (5) Install the piston and socket with bolts. Tighten bolts to 30 to 40 in-lbs.
- (6) Install the torque knee.
- (7) Install the orifice tube.
- (8) Lubricate the strut in accordance with para. 3-2-2.
- (9) Install the "O" ring, stopper and plug with the snap ring.
- (10) Install the "O" ring and valve body on the plug.
- (11) Charge air in accordance with para. 3-2-12 and install the valve cap.

## 9-4 NOSE LANDING GEAR (SEE FIG. 9-6)

### 9-4-1 REMOVAL AND INSTALLATION OF NOSE LANDING GEAR

- (1) Remove the upper engine cowl.
- (2) Lift the nose gear off the ground either by
  - a. lifting the forward fuselage using the engine hoist ring, or
  - b. jacking up the airplane per para.2-2.

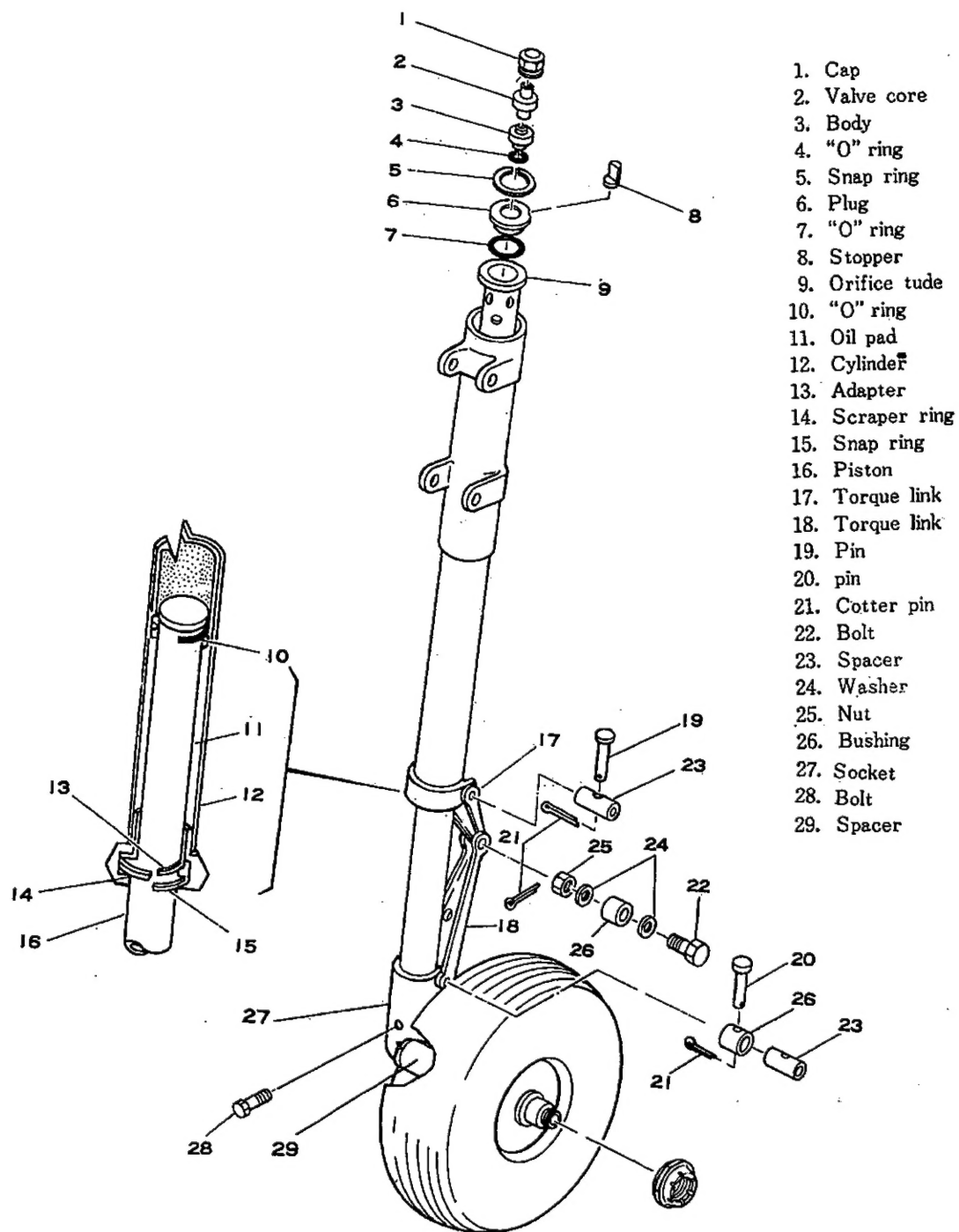


FIG 9-5 MAIN GEAR SHOCK STRUT AND TORQUE LINK

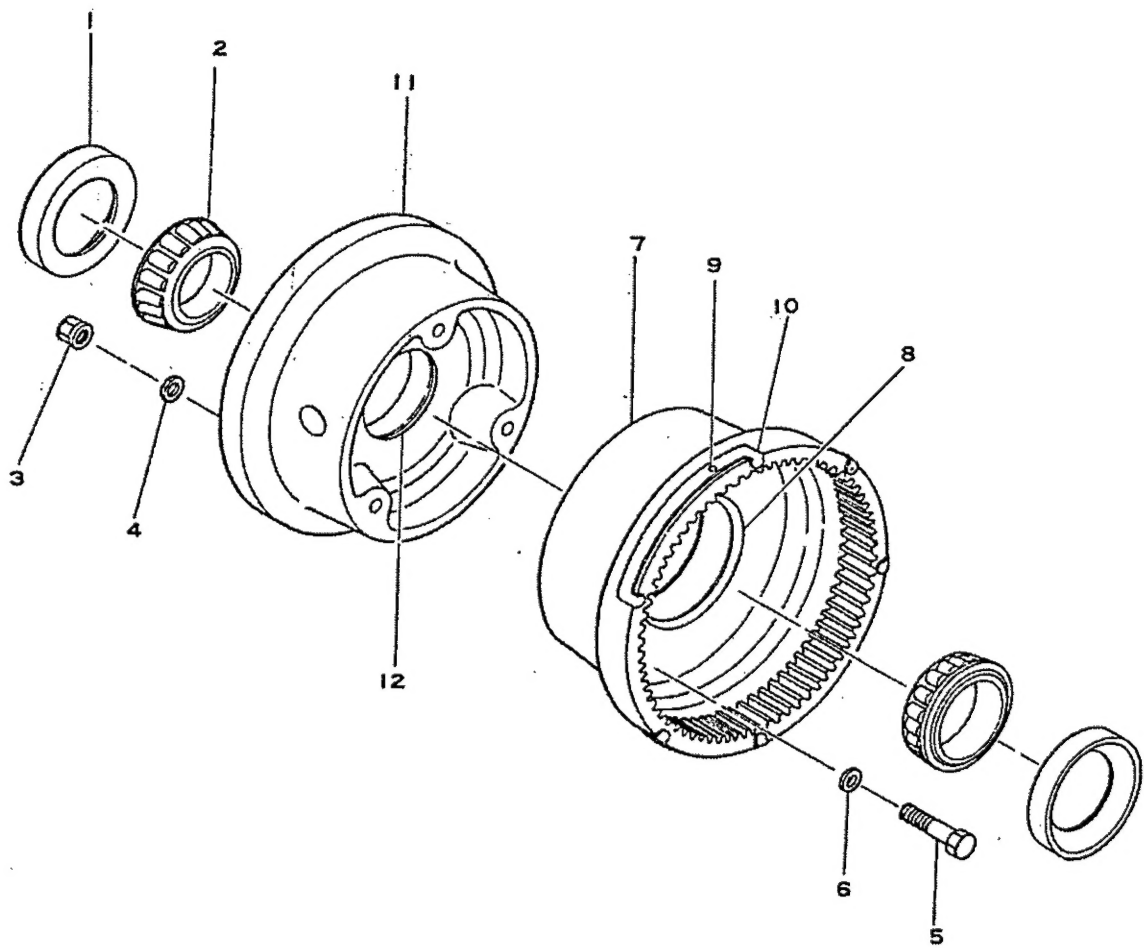
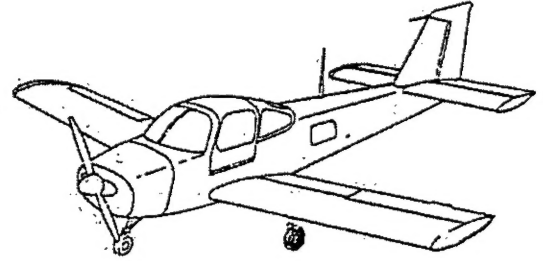


FIGURE 14. WHEEL ASSEMBLY, MAIN LANDING GEAR  
(USE WITH TUBE TYPE TIRE)



FIG & INDEX NO.	PART NO.	DESCRIPTION 1 2 3 4 5 6 7	UNITS PER ASS'Y	USABLE ON CODE
14-	9532522	WHEEL ASSY, MAIN LANDING GEAR..... (U. S. G. Y)	1	A
	9532522-1	WHEEL ASSY, MAIN LANDING GEAR.....	1	B
- 1	9524218	· SEAL, BEARING .....	2	
- 2	13889	· CONE, BEARING .....	2	
- 3	22FH-428	· NUT, SELF LOCKING .....	3	A
	42FLW-428	· NUT, SELF LOCKING .....	3	B
- 4	MS20002-4	· WASHER .....	3	
- 5	NAS144-23	· BOLT .....	3	
- 6	*MS20002C4	· WASHER, COUNTERSUNK .....	3	
	*9525391	· PLATE, DATA ADHESIVE INBOARD .....	1	A
	*5008252	· PLATE, DATA ADHESIVE INBOARD .....	1	B
	*9525392	· PLATE, DATA ADHESIVE OUTBOARD .....	1	A
	*5008253	· PLATE, DATA ADHESIVE OUTBOARD .....	1	B
- 7	9524201	· WHEEL SUBASSEMBLY, INBOARD .....	1	
- 8	13830	· · CUP, BEARING .....	1	
- 9	MS20426DD6-6	· · RIVET .....	3	
-10	9525059	· · CLIP, DISC .....	3	
-11	9524318	· WHEEL SUBASSEMBLY, OUTBOARD .....	1	
-12	13830	· · CUP, BEARING .....	1	
	*AN504-8R8	· · SCREW .....	1	
	*9524491	· · CLIP, VALVE .....	1	
	*9524877	KIT, WHEEL BALANCE WEIGHT .....	1	
		(ORDER SEPARATELY)		
	*9524876	· CLIP, BALANCE WEIGHT DISC .....	3	
	*9524875	· DISC, BALANCE WEIGHT .....	1	
	*9524858	· WEIGHT, LEAD BALANCE .....	2	
	*AN520-10-10	· SCREW, BALANCE WEIGHT .....	2	
	*NAS679A3W	· NUT, BALANCE WEIGHT .....	2	
		 *NOT ILLUSTRATED		
		 A.....FOR 9532522 WHEEL ASSY B.....FOR 9532522-1 WHEEL ASSY		

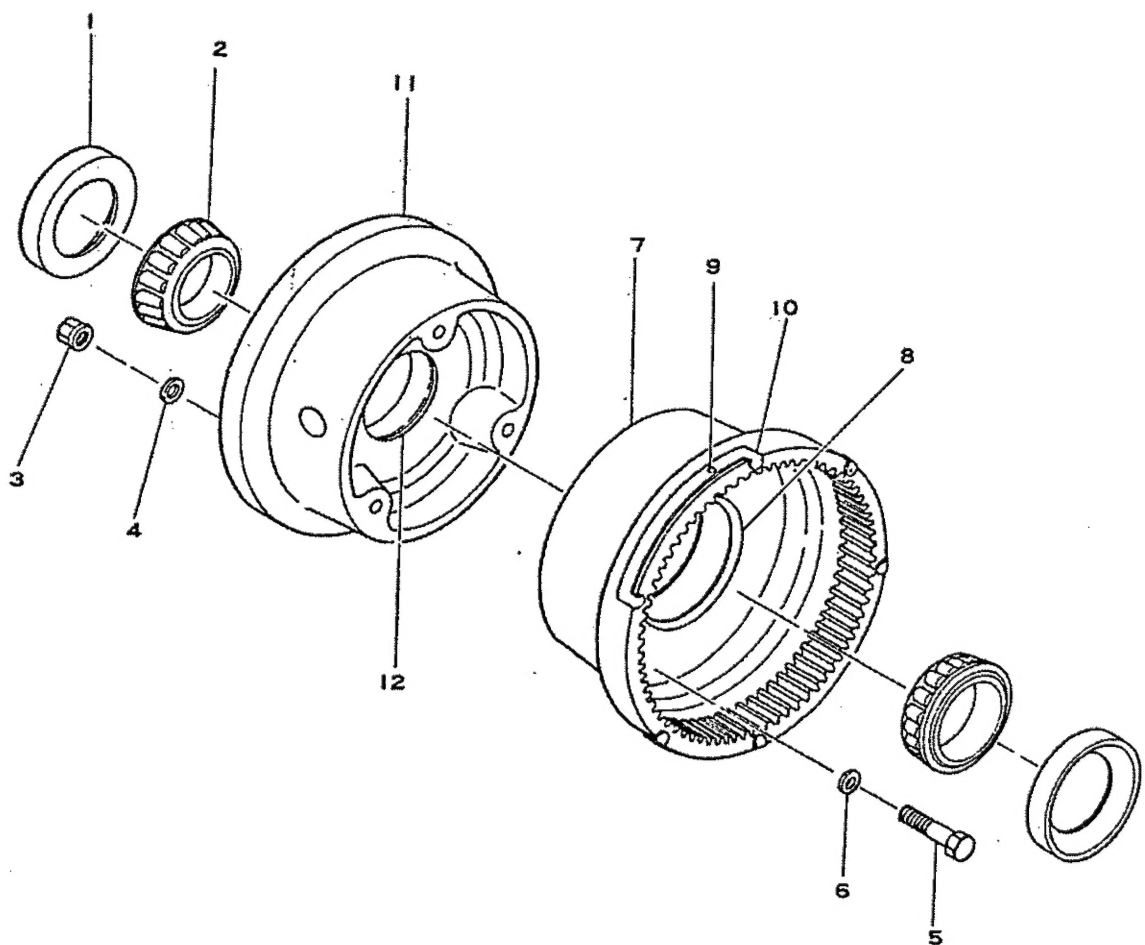
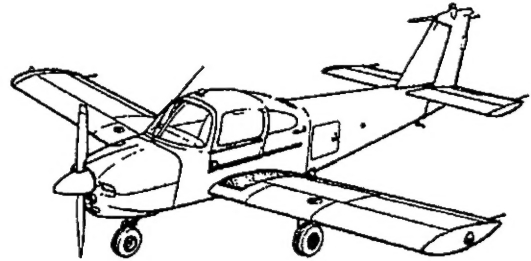


FIGURE 14. WHEEL ASSEMBLY, MAIN LADING GEAR  
(USE WITH TUBE TYPE TIRE)



FIG & INDEX NO.	PART NO.	DESCRIPTION 1 2 3 4 5 6 7	UNITS PER ASS'Y	USABLE ON CODE
14-	9532522	WHEEL ASSY, MAIN LANDING GEAR..... (U. S. G. Y)	1	A
	9532522-1	WHEEL ASSY, MAIN LANDING GEAR.....	1	B
- 1	9524218	• SEAL, BEARING .....	2	
- 2	13889	• CONE, BEARING .....	2	
- 3	22FH-428	• NUT, SELF LOCKING .....	3	A
	42FLW-428	• NUT, SELF LOCKING .....	3	B
- 4	MS20002-4	• WASHER .....	3	
- 5	NAS144-23	• BOLT .....	3	
- 6	*MS20002C4	• WASHER, COUNTERSUNK .....	3	
	*9525391	• PLATE, DATA ADHESIVE INBOARD .....	1	A
	*5008252	• PLATE, DATA ADHESIVE INBOARD .....	1	B
	*9525392	• PLATE, DATA ADHESIVE OUTBOARD .....	1	A
	*5008253	• PLATE, DATA ADHESIVE OUTBOARD .....	1	B
- 7	9524201	• WHEEL SUBASSEMBLY, INBOARD .....	1	
- 8	13830	• • CUP, BEARING .....	1	
- 9	MS20426DD6-6	• • RIVET .....	3	
-10	9525059	• • CLIP, DISC .....	3	
-11	9524318	• WHEEL SUBASSEMBLY, OUTBOARD .....	1	
-12	13830	• • CUP, BEARING .....	1	
	*AN504-8R8	• • SCREW .....	1	
	*9524491	• • CLIP, VALVE .....	1	
	*9524877	KIT, WHEEL BALANCE WEIGHT .....	1	
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